
Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: Wed Nov 14 14:45:15 EST 2007

Validated By CRFValidator v 1.0.3

Application No: 10567980 Version No: 2.0

Input Set:

Output Set:

Started: 2007-10-29 14:29:03.314

Finished: 2007-10-29 14:29:08.121

Elapsed: 0 hr(s) 0 min(s) 4 sec(s) 807 ms

Total Warnings: 101

Total Errors: 0

No. of SeqIDs Defined: 101

Actual SeqID Count: 101

Error code		Error Description	
W	402	Undefined organism found in <213> in SEQ ID (1)
W	402	Undefined organism found in <213> in SEQ ID (2)
W	402	Undefined organism found in <213> in SEQ ID (3)
W	402	Undefined organism found in <213> in SEQ ID (4)
W	402	Undefined organism found in <213> in SEQ ID (5)
W	402	Undefined organism found in <213> in SEQ ID (6)
W	402	Undefined organism found in <213> in SEQ ID (7)
W	402	Undefined organism found in <213> in SEQ ID (8)
W	402	Undefined organism found in <213> in SEQ ID (9)
W	402	Undefined organism found in <213> in SEQ ID (1	0)
W	402	Undefined organism found in <213> in SEQ ID (1	1)
W	402	Undefined organism found in <213> in SEQ ID (1:	2)
W	402	Undefined organism found in <213> in SEQ ID (1	3)
W	402	Undefined organism found in <213> in SEQ ID (1	4)
W	402	Undefined organism found in <213> in SEQ ID (1	5)
W	402	Undefined organism found in <213> in SEQ ID (1	6)
W	402	Undefined organism found in <213> in SEQ ID (1	7)
W	402	Undefined organism found in <213> in SEQ ID (1	8)
W	402	Undefined organism found in <213> in SEQ ID (1	9)
W	402	Undefined organism found in <213> in SEQ ID (2	0)

Input Set:

Output Set:

Started: 2007-10-29 14:29:03.314

Finished: 2007-10-29 14:29:08.121

Elapsed: 0 hr(s) 0 min(s) 4 sec(s) 807 ms

Total Warnings: 101
Total Errors: 0

No. of SeqIDs Defined: 101

Actual SeqID Count: 101

Err	or code	Error Description											
		This error has occured more than 20 times, will not be displayed											
W	213	Artificial or Unknown found in <213> in SEQ ID (100)											
W	213	Artificial or Unknown found in <213> in SEQ ID (101)											

SEQUENCE LISTING

<110		Van I Allei Muske	fs, S	Josep	phus	Edwir	ר									
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<130)>	1347	7-000	002-t	JS											
<140	 >	1056	7980													
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<211	.>	3804														
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<213	3>	Solar	num k	oulbo	ocast	anur	n									
<220	 >															
<221	.>	CDS														
<222	!>	(1).	. (380	04)												
<400	>	1														
_	_	aaa	_		_		_	_	_				_			48
Met	Glu	Lys	Arg	Lys	Asp	Asn	Glu	Glu	Ala	Asn	Asn	Ser	Leu	Glu	Ser	
1				5					10					15		
ttt	tct	gct	ctt	cgc	aag	gat	gct	gcc	aat	gtt	ctg	gat	ttc	cta	gag	96
Phe	Ser	Ala	Leu	Arg	Lys	Asp	Ala	Ala	Asn	Val	Leu	Asp	Phe	Leu	Glu	
			20					25					30			
aga	tta	aag	aat	gaa	gaa	gat	caa	aag	gct	gtt	gat	gtg	gat	ctg	att	144
Arg	Leu	Lys	Asn	Glu	Glu	Asp	Gln	Lys	Ala	Val	Asp	Val	Asp	Leu	Ile	
		35					40					45				
gaa	agc	ctg	aaa	t.t.a	aaq	cta	aca	ttt	att	tat	aca	tat	atc	cad	ctt	192
-	_	Leu		_	_	_				_			-	_		
	50		<u>.</u>			55				<u>.</u>	60					
4		. .							ا - س		- -					0.40
		tcc	-	-		-		-	-		-		-		_	240
5er 65	тАт	Ser	дар	теп	70	пуз	E 116	GIU	Ash	75	riet	TIIT	ATY	тур	80	
					, 0					, ,						
caa	gag	gtt	gag	aat	ctg	ctt	caa	cca	att	ttg	gat	gat	gat	ggc	aaa	288

Gln	Glu	Val	Glu	Asn 85	Leu	Leu	Gln	Pro	Ile 90	Leu	Asp	Asp	Asp	Gly 95	Lys		
_	-		_			_		act Thr 105	_		_			_	_	3	336
_	_		_	_			_	tct Ser			-	-		_	_	3	384
_			_					ttg Leu							_	4	132
	-	-	-	_	_			gga Gly						-		4	180
_		_	_				_	gat Asp				_				5	528
-	-		-			_	-	gag Glu 185		-			_			5	576
_	_	_		_	-		_	ttc Phe				-	_	-	_	6	524
_	-							gat Asp		-	-	_		-		6	572
_					_		_	cat His			_	_		-		7	720
	-	_		-	_			tgt Cys				_		-		7	768
			-			_		att Ile 265	_	_		_	-			8	316
_	_			_	_		_	att Ile						_		8	364
	-							ggg Gly	-	_				_	_	9	12
_	-			_				tct Ser	-	_	_		_	_		9	60

305 310 315 320

														gca Ala 335		1008
			_				-	_	-	_	_			tta Leu		1056
			-		-	-			-	_			_	ttt Phe	-	1104
_			_			_	_	_				_		ctg Leu		1152
-	_	-					_			_	_	-		cct Pro		1200
	_		_		_	_			_	_	_	_	_	tcc Ser 415		1248
-				-	_		_	-				_		aaa Lys	_	1296
_	_	_			_									gga Gly	_	1344
		-			-	_	-		-		_			gca Ala		1392
_	-		_				-	-	-					cat His		1440
							-	-	_	-	-			aaa Lys 495	_	1488
	-		-							_		-		ctc Leu		1536
-					_			-		-	_		_	aca Thr		1584
_				-								_		ctt Leu	_	1632

_	ctc Leu		_		_	_	_		-	_		_				1680
_	ccg Pro							_				-			_	1728
	tca Ser	_		_			_		-	_		_	_	-	=	1776
	gta Val		-		_	_	-	_	-						-	1824
_	gac Asp 610					_	_				-	-	-	-		1872
	cgg Arg			_			_					-		_	_	1920
	tgg Trp	_					_				_				-	1968
	atg Met			-	-			_			-	-	_		_	2016
Gly	_	Lys cat	Gly 660 gga	Ser	Arg	Ile tac	Ile act	Leu 665 gat	Thr	Thr	Arg	Glu	Lys 670 cga	Lys ttg	Val cta	2016
Gly gct Ala	Met	Lys cat His 675	Gly 660 gga Gly	Ser aag Lys	Arg ctc Leu	Ile tac Tyr	act Thr 680	Leu 665 gat Asp	Thr cct Pro	Thr ctt Leu	Arg aac Asn	Glu ctt Leu 685 gca	Lys 670 cga Arg	ttg Leu gga	Val cta Leu	
Gly gct Ala aga Arg	Met ttg Leu tca Ser	cat His 675 gaa Glu	Gly 660 gga Gly gaa Glu	ser aag Lys agt ser	Arg ctc Leu tgg Trp	tac Tyr gag Glu 695	act Thr 680 tta Leu	Leu 665 gat Asp tta Leu	Thr cct Pro gag Glu gtt	Thr ctt Leu aaa Lys	aac Asn agg Arg 700	Glu ctt Leu 685 gca Ala	Lys 670 cga Arg ttt Phe	ttg Leu gga Gly	Cta Leu aac Asn	2064
Gly gct Ala aga Arg gag Glu 705 aat	Met ttg Leu tca Ser 690 agt	cat His 675 gaa Glu tgc Cys	Gly 660 gga Gly gaa Glu cct Pro	aag Lys agt Ser gat Asp	ctc Leu tgg Trp gaa Glu 710	tac Tyr gag Glu 695 cta Leu	act Thr 680 tta Leu ttg Leu	Leu 665 gat Asp tta Leu gat Asp	Thr cct Pro gag Glu gtt Val	ctt Leu aaa Lys ggt Gly 715	aac Asn agg Arg 700 aaa Lys	Glu ctt Leu 685 gca Ala gaa Glu	Lys 670 cga Arg ttt Phe ata Ile	ttg Leu gga Gly gcc Ala	Cta Leu aac Asn gaa Glu 720 att	2064
gct Ala aga Arg gag Glu 705 aat Asn	ttg Leu tca Ser 690 agt Ser	cat His 675 gaa Glu tgc Cys aaa Lys	Gly 660 gga Gly gaa Glu cct Pro	aag Lys agt Ser gat Asp ctt Leu 725	ctc Leu tgg Trp gaa Glu 710 cct Pro	tac Tyr gag Glu 695 cta Leu ttg Leu	act Thr 680 tta Leu ttg Leu gtg Val	Leu 665 gat Asp tta Leu gat Asp	cct Pro gag Glu gtt Val gat Asp 730	ctt Leu aaa Lys ggt Gly 715 ctg Leu	aac Asn agg Arg 700 aaa Lys att Ile	Glu ctt Leu 685 gca Ala Glu gct Ala	Lys 670 cga Arg ttt Phe ata Ile gga Gly	ttg Leu gga Gly gcc Ala atc Ile 735	Cta Leu aac Asn gaa Glu 720 att Ile	2064 2112 2160

-	ata -	_		-				-		_	-		-	_	-	2352
Glu	11e 770	Ser	Tyr	Asp	His		Pro	Asp	His	Leu	-	Pro	Cys	Leu	Leu	
	770					775					780					
tac	ttt	gca	agt	aca	cca	aaσ	gac	taa	σta	acq	aca	atc	cat	gag	tta	2400
	Phe	_	_		_	_	_		-	_					-	
785					790	_	-	-		795					800	
aaa	ctt	att	tgg	ggt	ttt	gaa	gga	ttt	gtg	gaa	aag	aca	gat	atg	aag	2448
Lys	Leu	Ile	Trp	Gly	Phe	Glu	Gly	Phe	Val	Glu	Lys	Thr	Asp	Met	Lys	
				805					810					815		
_	ctg	-	_						_	_	_				_	2496
Ser	Leu	Glu		Val	Val	Lys	Ile	_	Leu	Asp	Asp	Leu		Ser	Ser	
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acc	ttg	at a	att	t at	ttc	aat	gag	ata	aat	cat	tac	cct	act	tac	caa	2544
_	Leu	_		_						_				_		2311
001	Lou	835		0,10	1110	11011	840		011	1101	- 1 -	845		0,10	0111	
ctt	cat	gat	ctt	gtg	cat	gac	ttt	tgt	ttg	ata	aaa	gca	aga	aag	gaa	2592
Leu	His	Asp	Leu	Val	His	Asp	Phe	Cys	Leu	Ile	Lys	Ala	Arg	Lys	Glu	
	850					855					860					
_	ttg	_	_			_		_	_			_	_	_		2640
_	Leu	Cys	Asp	Arg		Ser	Ser	Ser	Ala		Ser	Asp	Leu	Leu		
865					870					875					880	
cat	caa	att	200	a++	a a t	tat	aat	a a t	a a t	~ a a	aaa	Cac	+++	aaa	c++	2688
-	Gln		_		-		_	-	-	-						2000
9	0111		201	885	-12P	-1-	-1019	-10p	890	014	014			895	200	
aat	ttt	gtc	ctg	ttc	ggt	tca	aat	aag	aaa	agg	cat	tcc	ggt	aaa	cac	2736
Asn	Phe	Val	Leu	Phe	Gly	Ser	Asn	Lys	Lys	Arg	His	Ser	Gly	Lys	His	
			900					905					910			
	tat -		-					-		_	-	-				2784
Leu	Tyr		Leu	Thr	Ile	Asn	_	Asp	Glu	Leu	Asp	_	His	Leu	Ser	
		915					920					925				
gat	aca	ttt	cat	cta	aga	cac	tta	agg	ctt	ctt	aga	acc	tta	cac	cta	2832
-	Thr				-		_				_		_		-	2002
-	930					935		,			940					
gaa	tcc	tct	ttt	atc	atg	gtt	aaa	gat	tct	ttg	ctg	aat	gaa	ata	tgc	2880
Glu	Ser	Ser	Phe	Ile	Met	Val	Lys	Asp	Ser	Leu	Leu	Asn	Glu	Ile	CAa	
945					950					955					960	
																0.000
_	ttg			_				_				_	-			2928
Met	Leu	ASN	nlS	Leu 965	arg	ıyr	ьeu	ser	970	σтλ	ınr	GIU	val	Lуs 975	ser	
				,00					J / U) I J		
cta	cct	tta	tct	ttc	tca	aac	ctc	taa	aat	cta	gaa	atc	tta	ttt	gta	2976
-	Pro	-									-		_			
			980					985					990			
gat	aac	aaa	gaa	tca	acc	ttg	ata	cta	a tta	a ccc	g aga	a att	t c	gg ga	at ctt	3024

Asp Asn Lys Glu Ser Thr Leu Ile Leu Leu Pro Arg Ile Trp Asp Leu 995 1000 1005

	aag Lys 1010	_			_	ttc Phe 1015	_		-	_	tct Ser 1020	ttc Phe	ttt Phe	_	3(069
_	gat Asp 1025	-	-	-		ata Ile 1030	_		-		gac Asp 1035		aag Lys		3:	114
	aac Asn 1040	_		-			-				tcc Ser 1050		tgg Trp		3:	159
_	aca Thr 1055		-			aaa Lys 1060					ctt Leu 1065				33	204
	ttc Phe 1070			_		tca Ser 1075		_			aca Thr 1080		caa Gln		32	249
	ttc Phe 1085	-		-	-	ttc Phe 1090			-		gaa Glu 1095		ctc Leu		32	294
-	gat Asp 1100		-	_		aac Asn 1105			-	_	ggg Gly 1110			-	33	339
-	ata Ile 1115					_					tcg Ser 1125	-	ttg Leu		31	384
_	ttg Leu 1130		_		_			_			gat Asp 1140				3,	429
	ata Ile 1145		-	_	_	aac Asn 1150		-		_	tac Tyr 1155		tat Tyr	_	3,	474
	atc Ile 1160				_	gaa Glu 1165			_		gaa Glu 1170	-	gac Asp		3!	519
	gag Glu 1175				_	_	_	_	_		gtg Val 1185		ctt Leu		3!	564
_	tgg Trp 1190		-			gaa Glu 1195			ccc Pro	_			aaa Lys		31	609
_	ctg Leu	-	-	_		aat Asn					ccg Pro		agt Ser		3 (654

1205 1210 1215

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